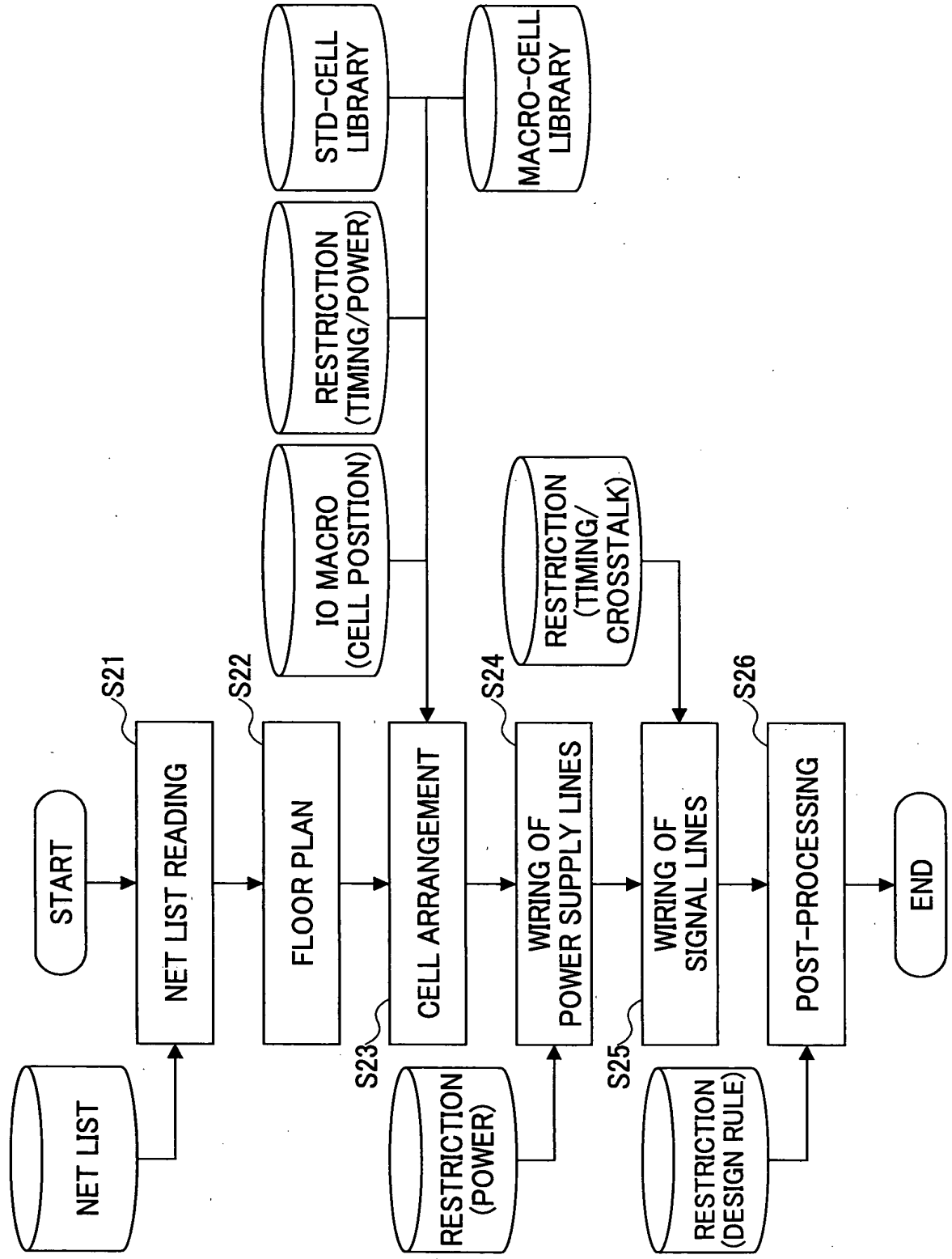
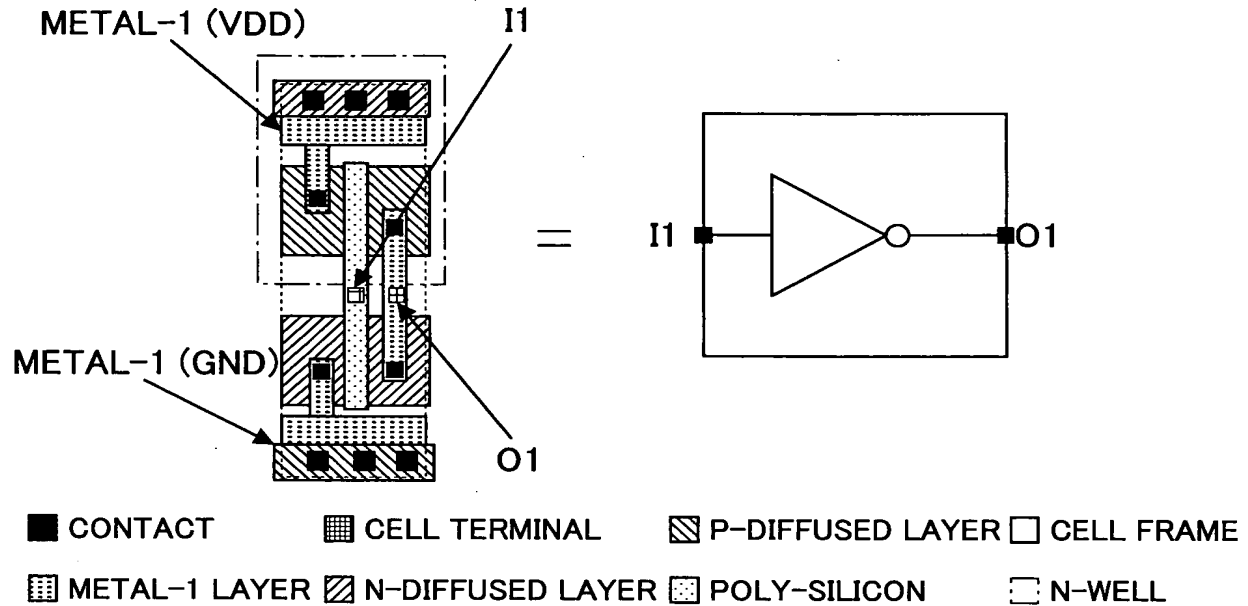


FIG.1 PRIOR ART



# FIG.2 PRIOR ART



# FIG.3 PRIOR ART

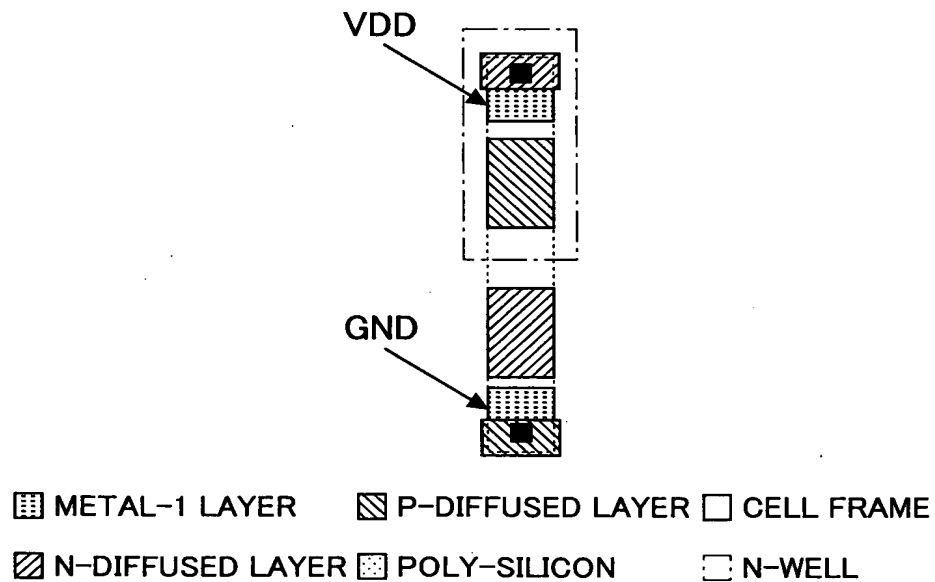


FIG.4 PRIOR ART

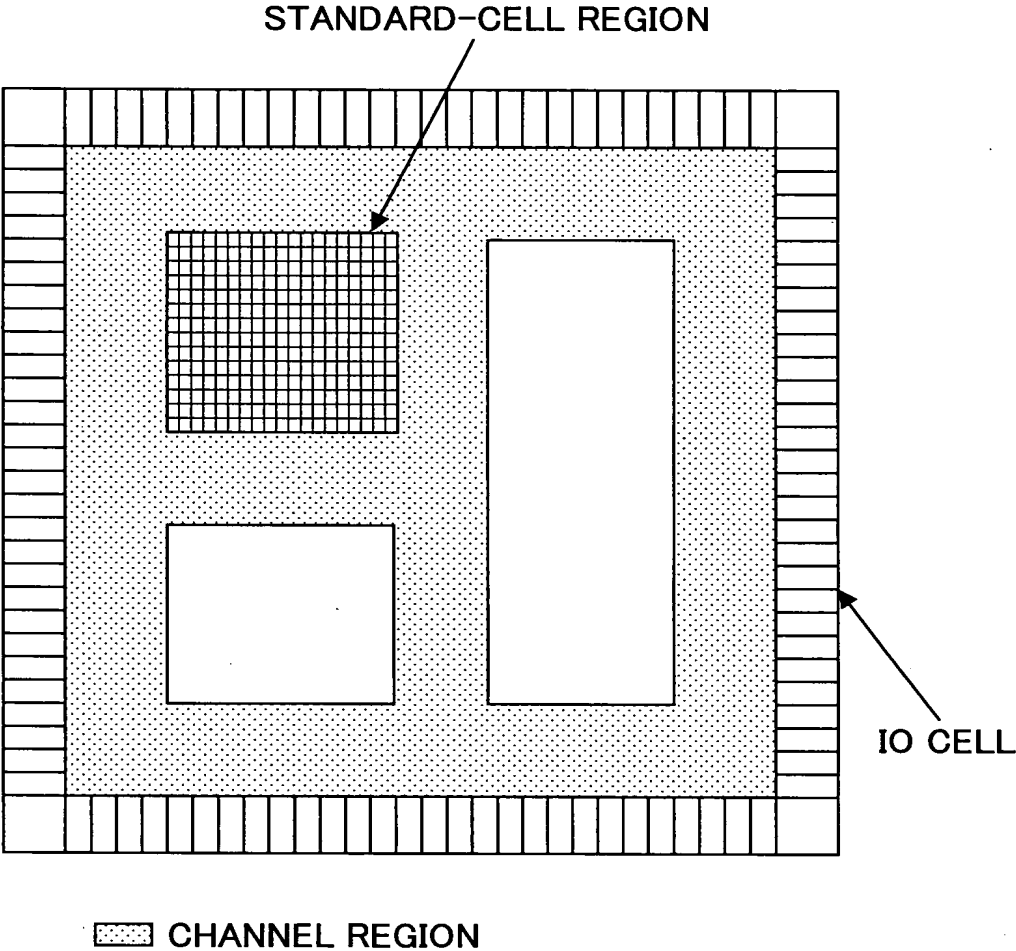


FIG.5A PRIOR ART

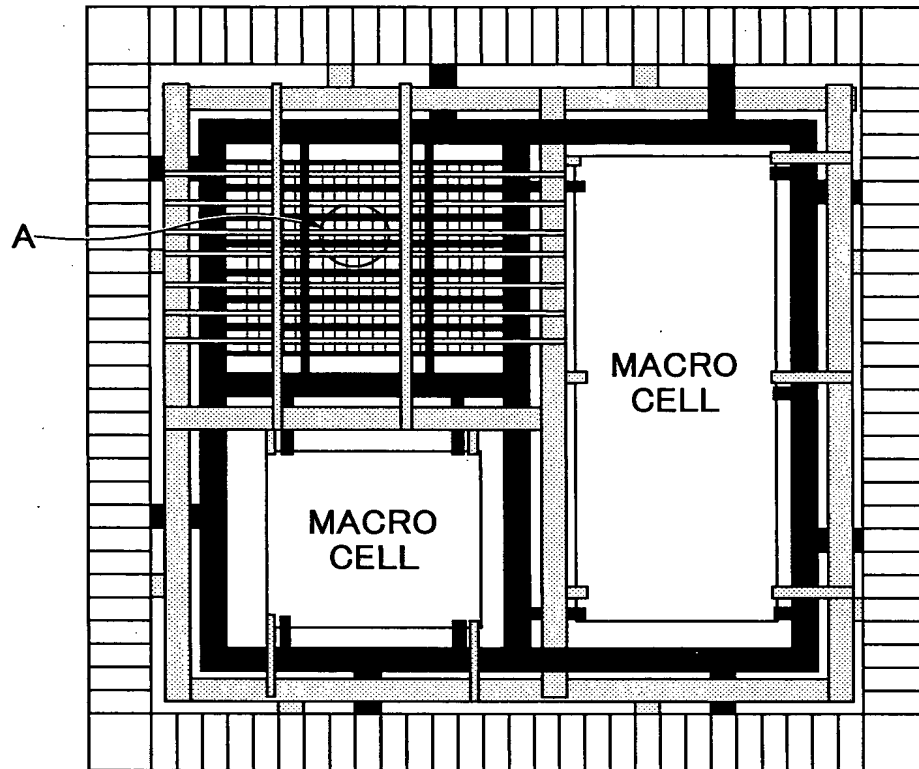
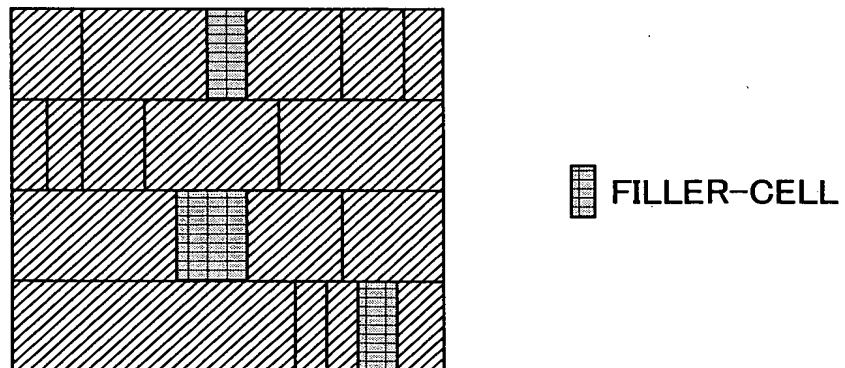
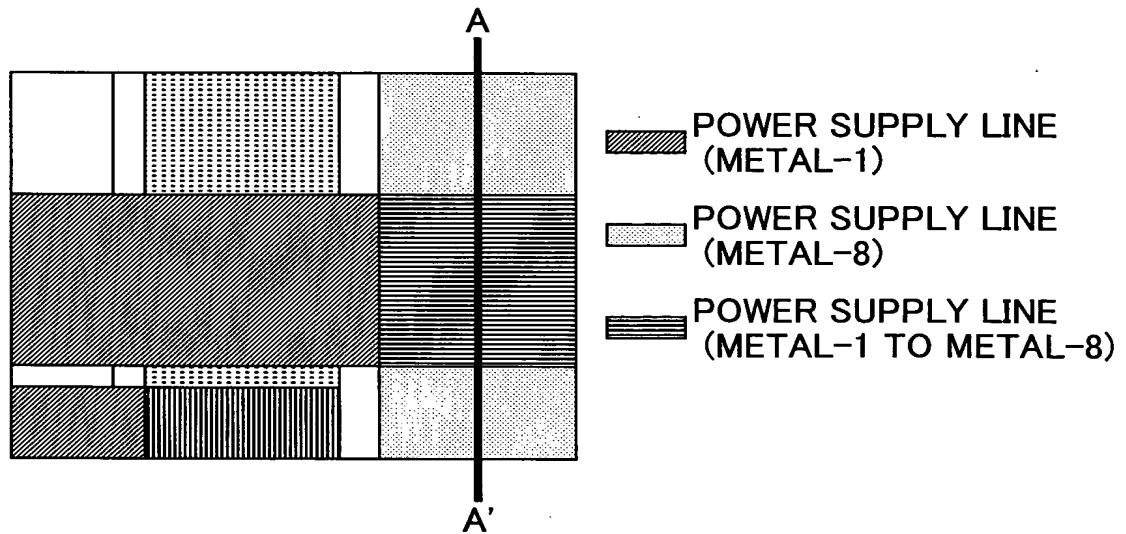


FIG.5B PRIOR ART



**FIG.6A**



**FIG.6B**

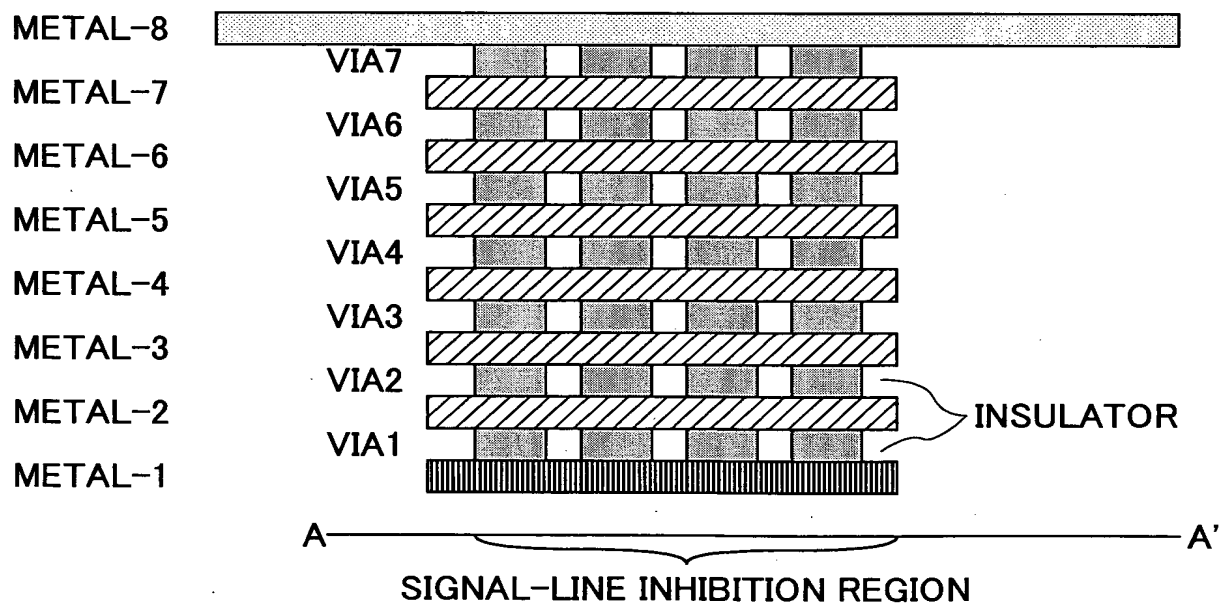
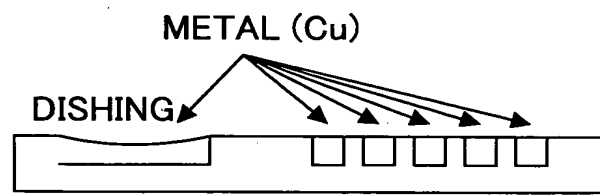
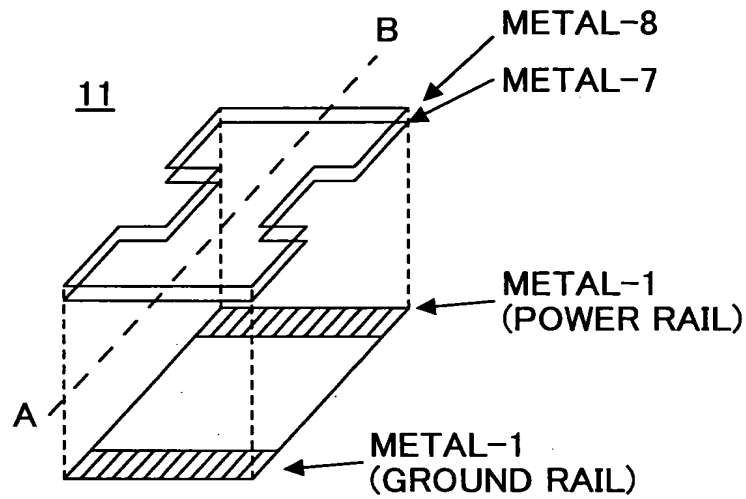


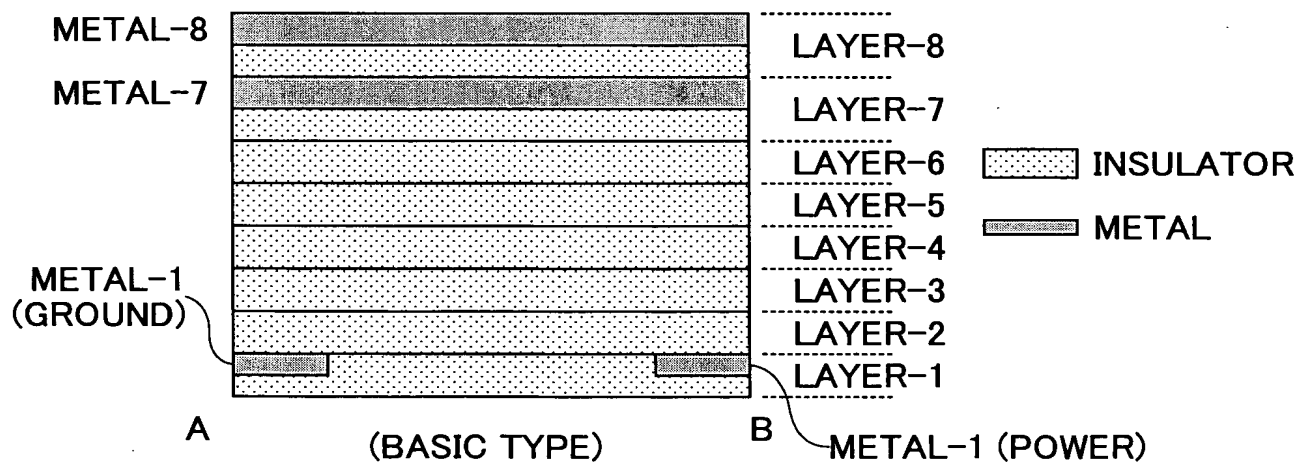
FIG.7



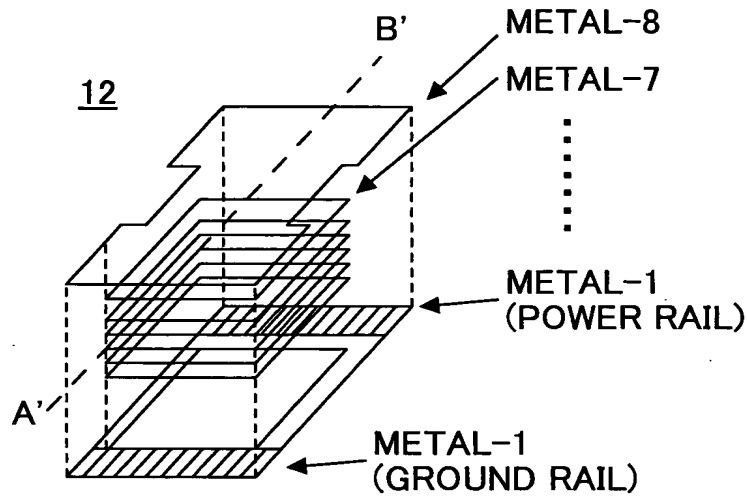
# FIG.8A



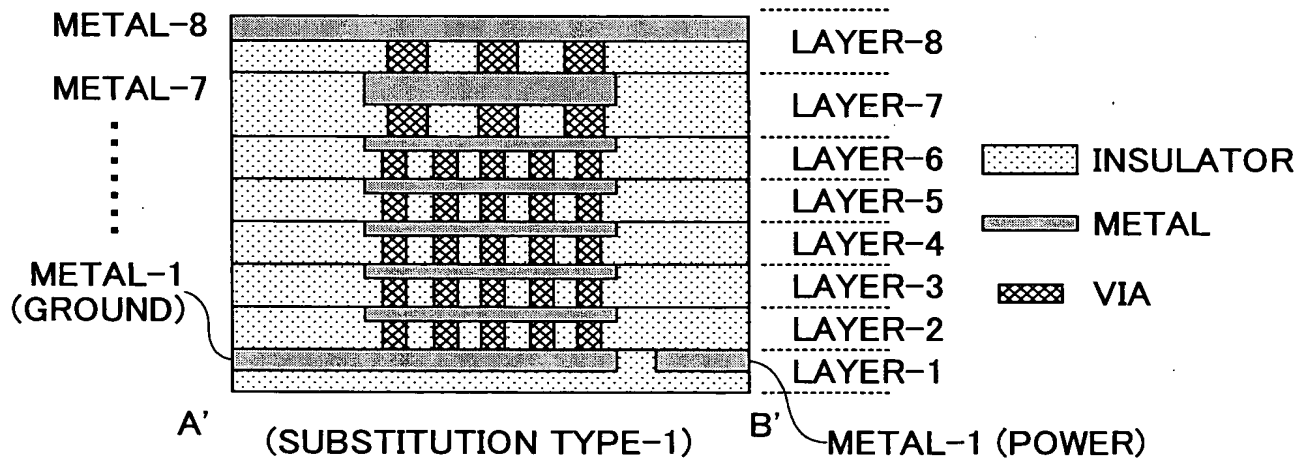
# FIG.8B



# FIG.9A

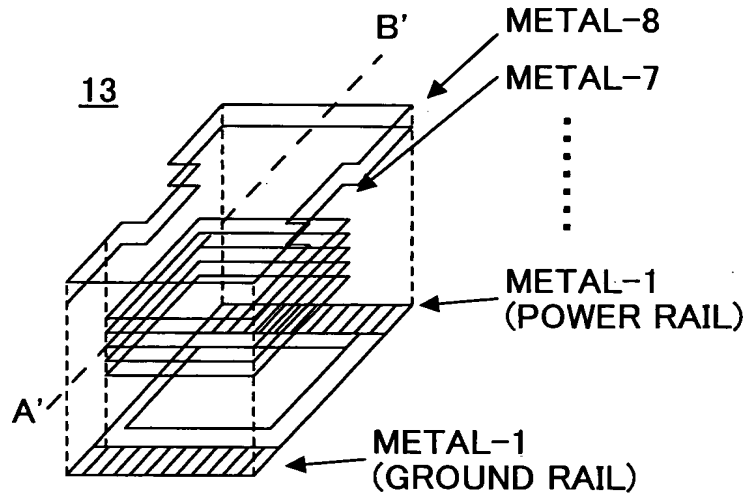


# FIG.9B





# FIG.10A



# FIG.10B

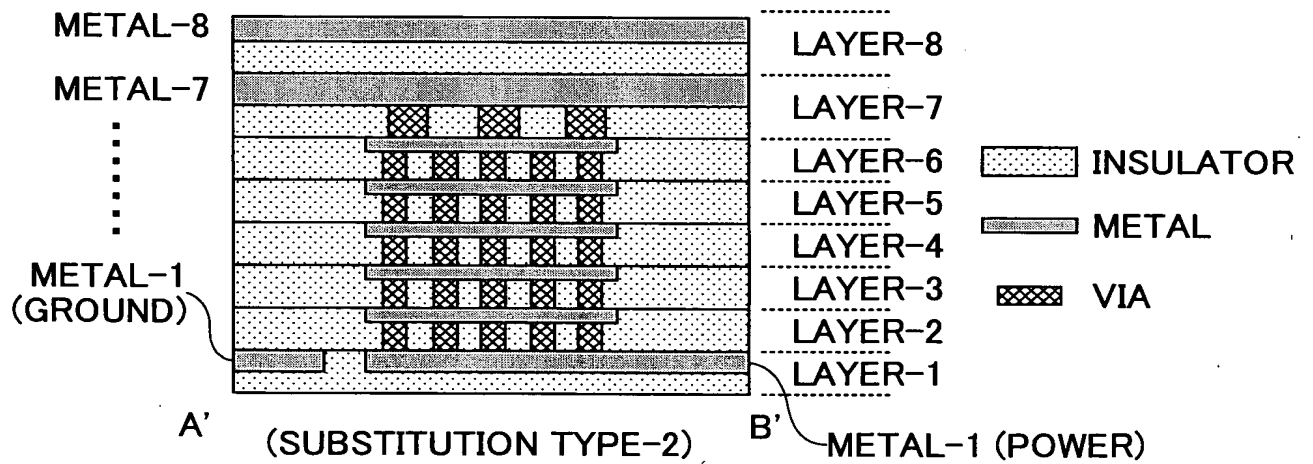


FIG.11

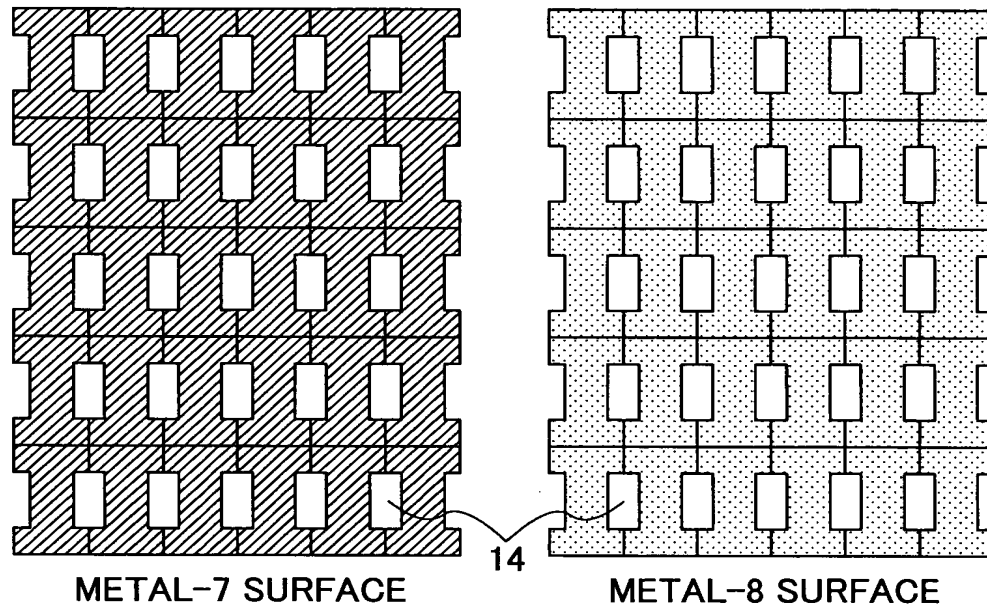


FIG.12

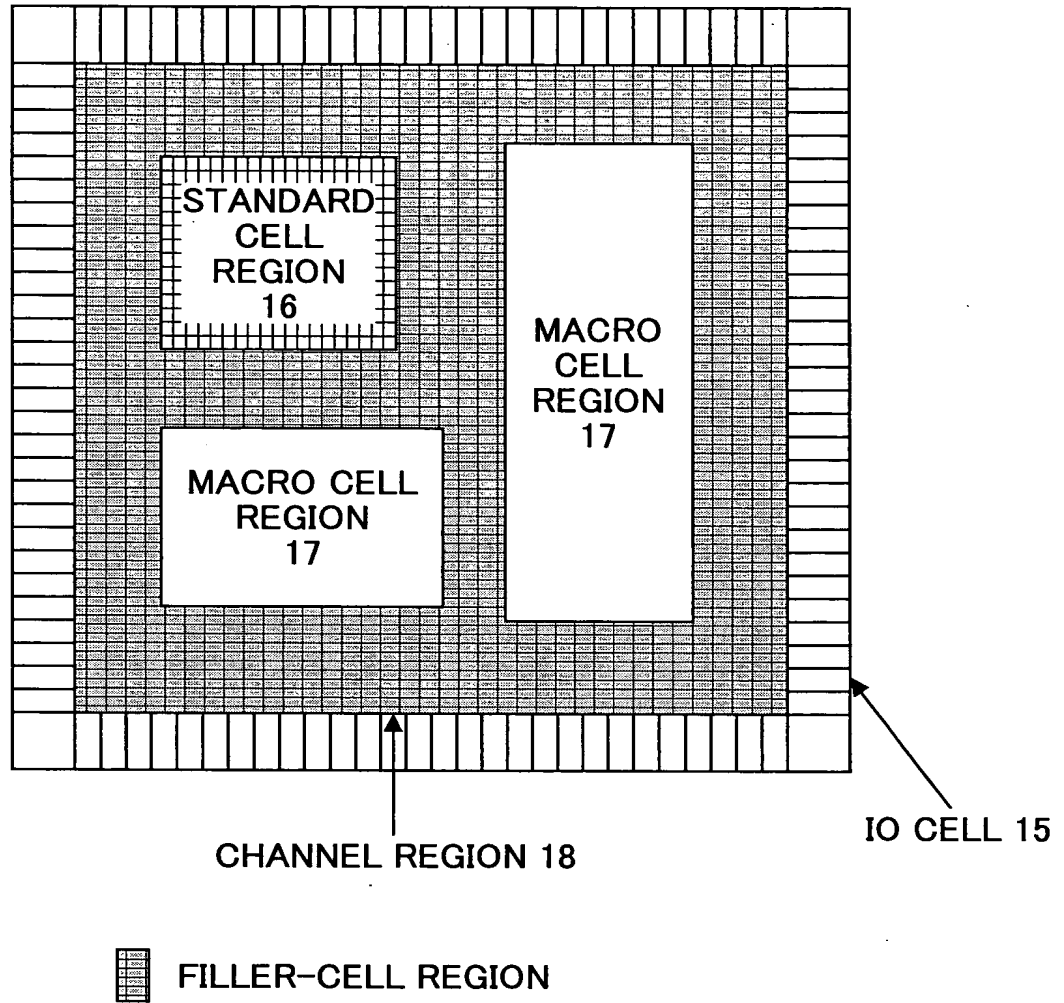


FIG.13

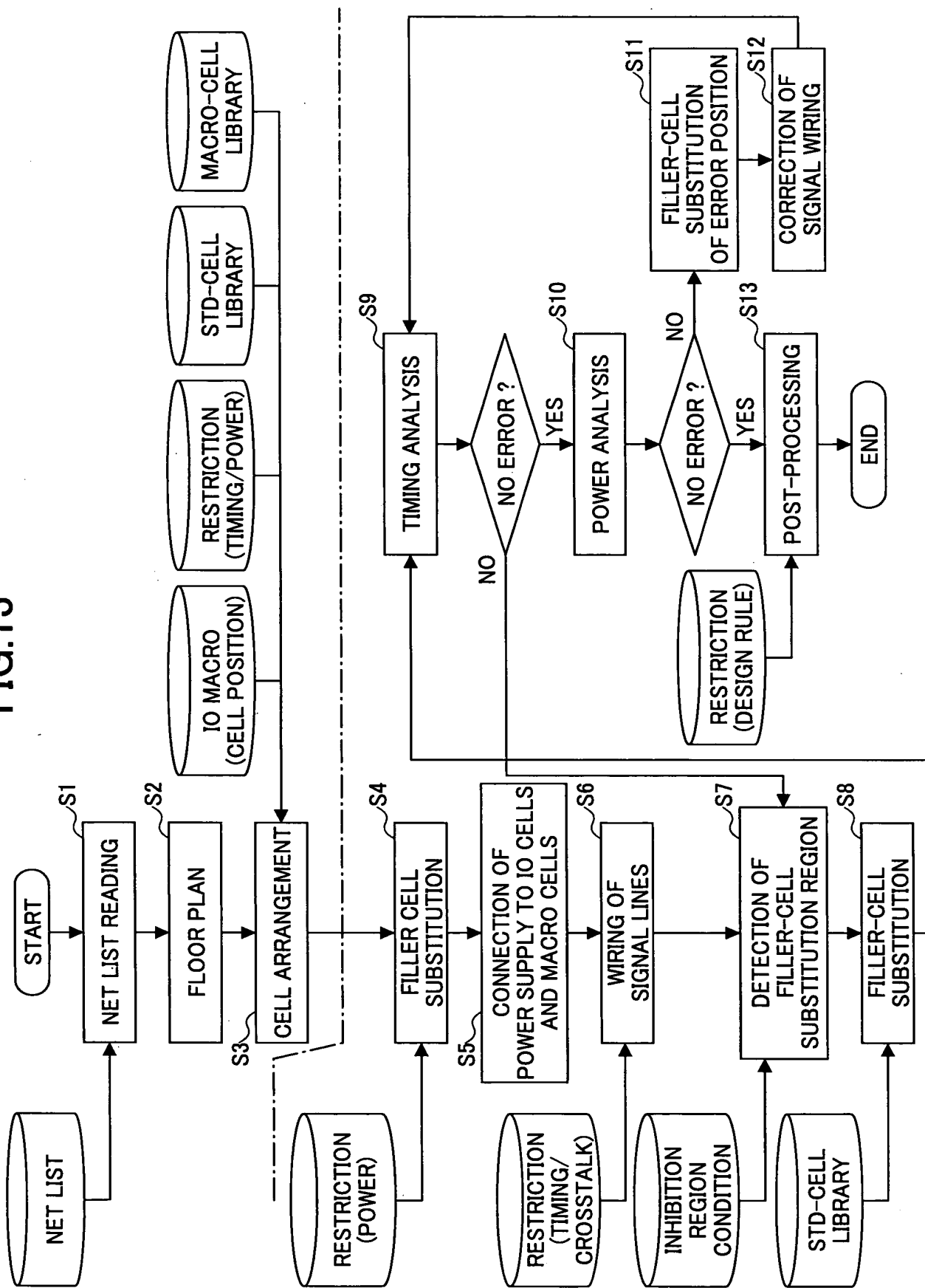


FIG.14A

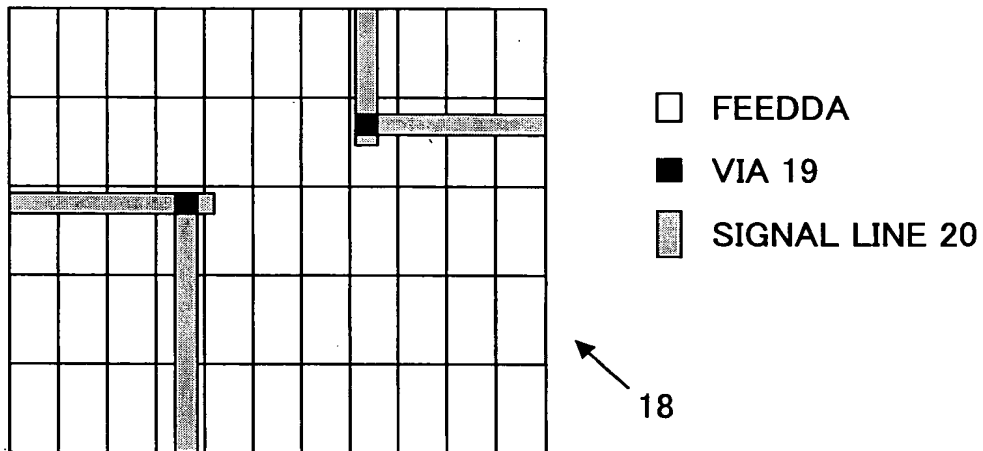
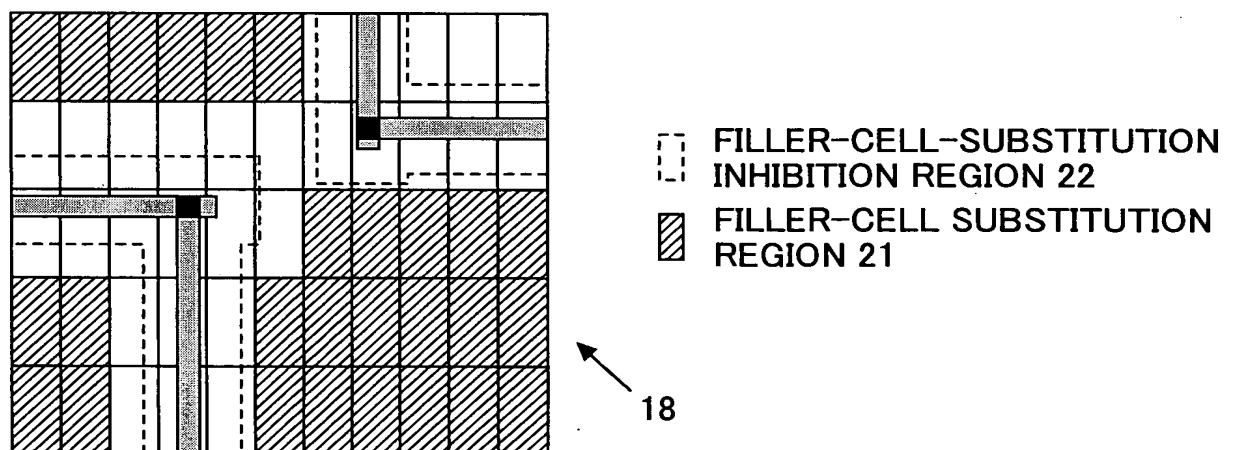
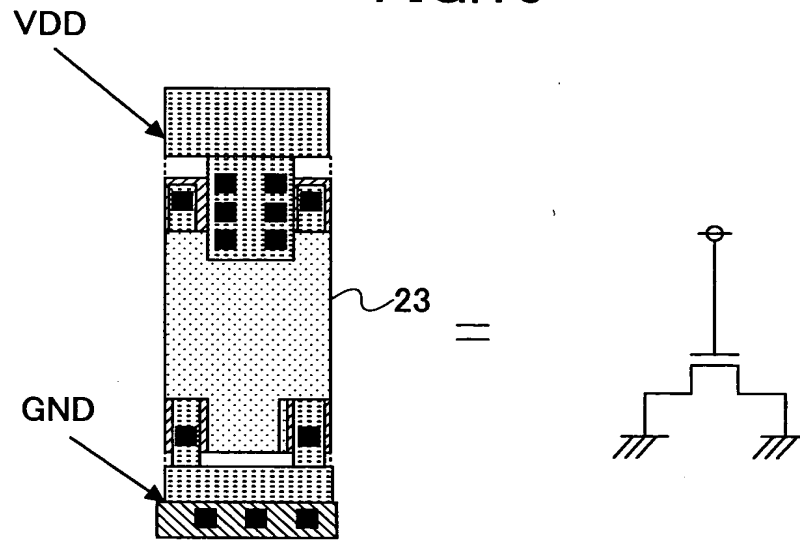


FIG.14B



# FIG.15



- |                 |                    |                    |              |
|-----------------|--------------------|--------------------|--------------|
| ■ CONTACT       | ▨ CELL TERMINAL    | ▧ P-DIFFUSED LAYER | □ CELL FRAME |
| ▤ METAL-1 LAYER | ▩ N-DIFFUSED LAYER | ░ POLY-SILICON     | □ N-WELL     |

FIG.16

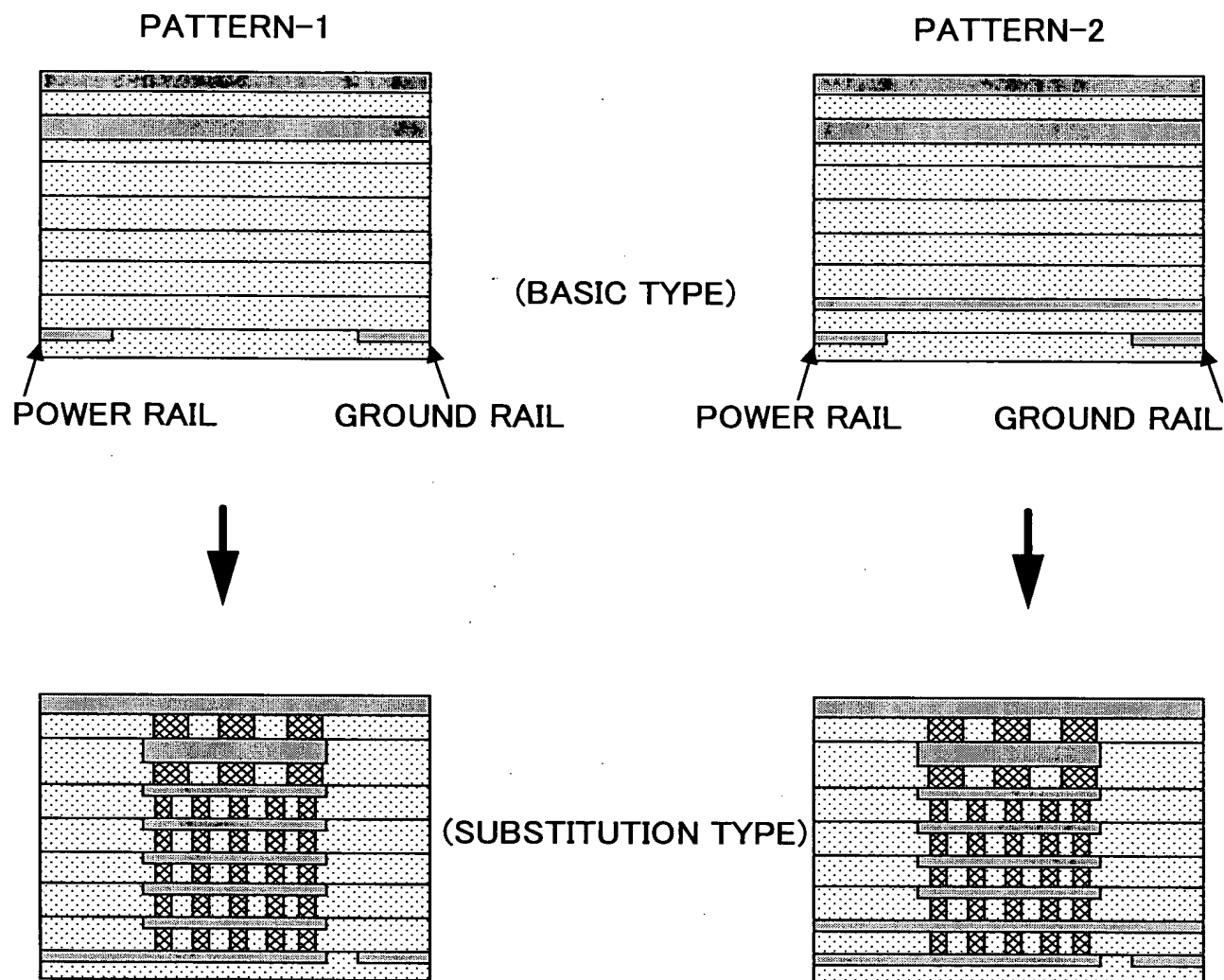


FIG.17

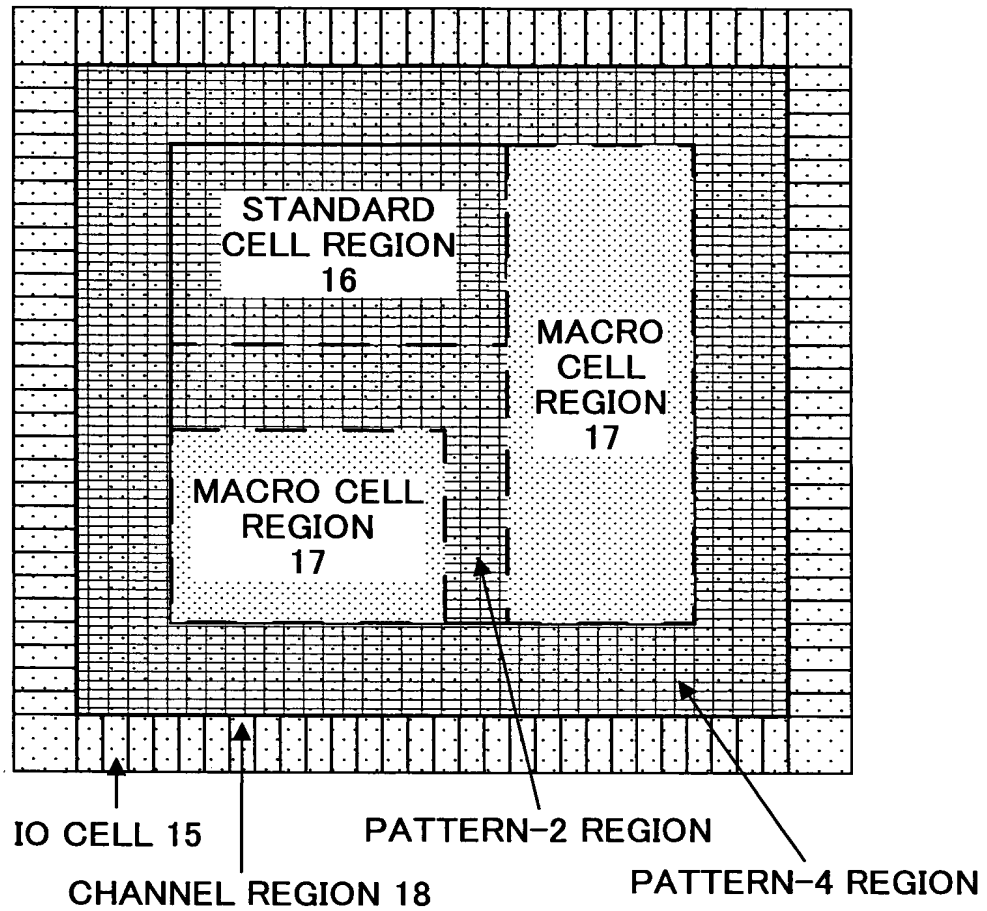




FIG.18

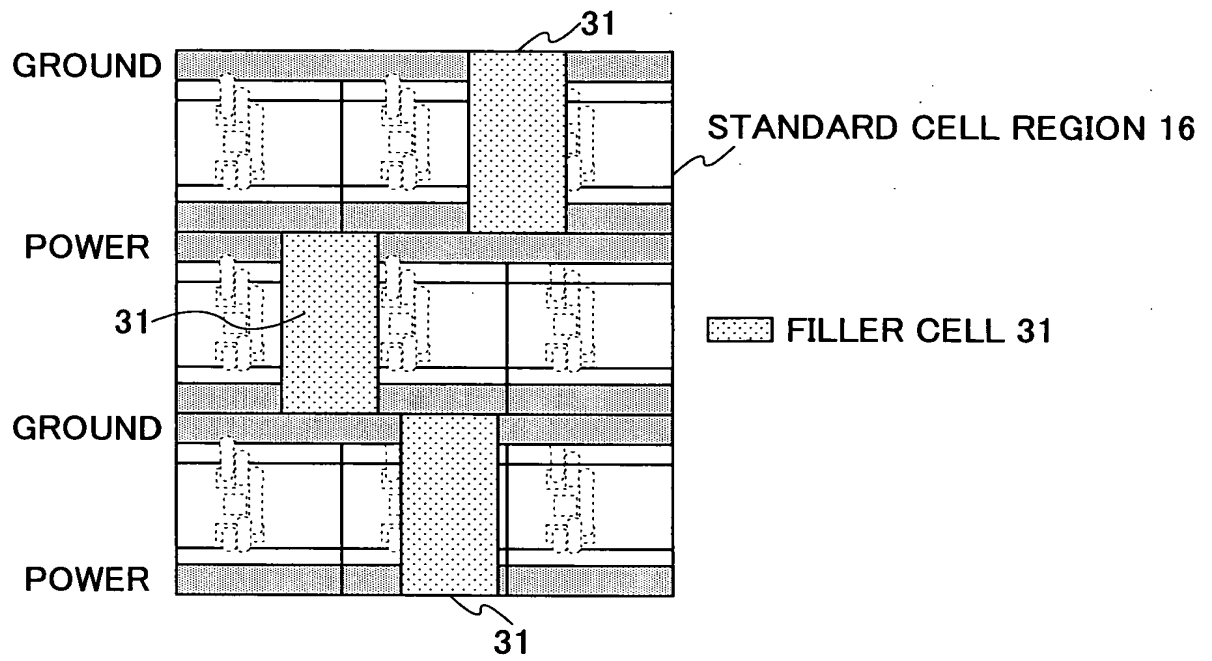


FIG.19

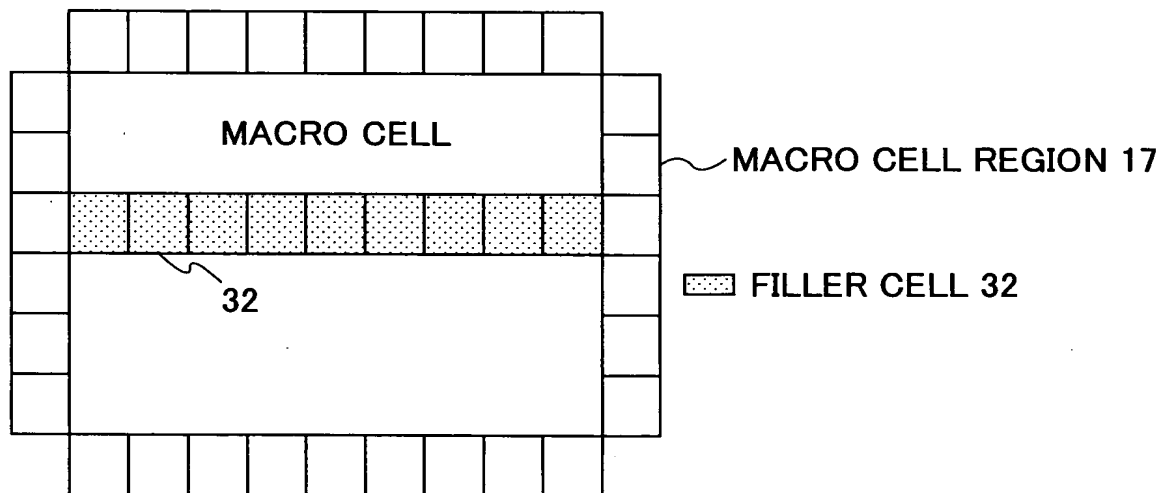


FIG.20

	FILLER CELL PATTERNS					
	PATTERN-1	PATTERN-2	PATTERN-3	PATTERN-4	PATTERN-5	PATTERN-6
METAL-8	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND
METAL-7	POWER	POWER	POWER	POWER	POWER	POWER
METAL-6	NONE	NONE	NONE	NONE	NONE	NONE
METAL-5	NONE	NONE	NONE	NONE	NONE	NONE
METAL-4	NONE	NONE	NONE	POWER	GROUND	POWER
METAL-3	NONE	NONE	POWER	GROUND	GROUND	NONE
METAL-2	NONE	POWER	GROUND	POWER	POWER	NONE
METAL-1	PWR/GRD	PWR/GRD	PWR/GRD	PWR/GRD	PWR/GRD	PWR/GRD